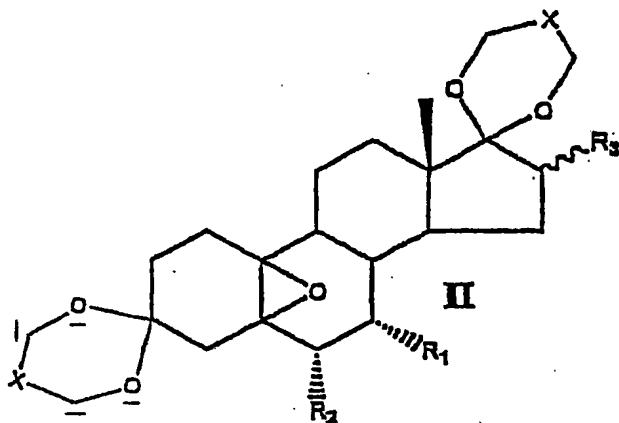


## AMENDMENTS TO THE CLAIMS

1. (Currently amended) Compounds of formula (II):

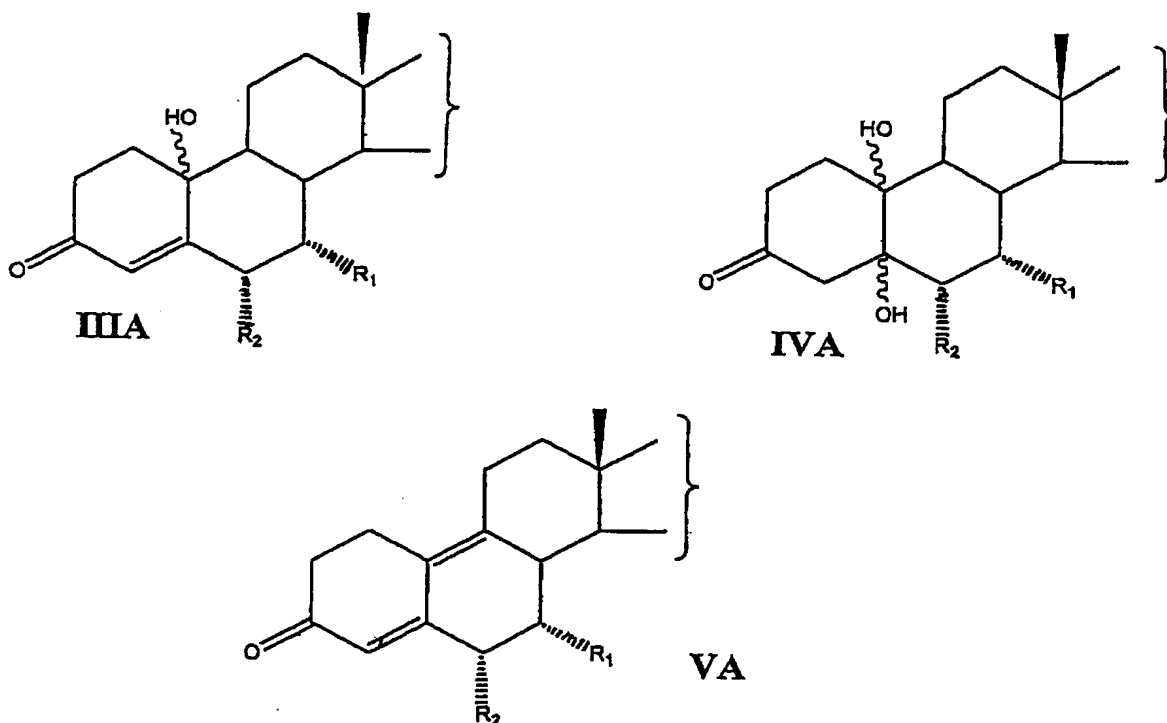


where X is selected from nothing, C(CH<sub>3</sub>)<sub>2</sub>, and CH<sub>2</sub>; R<sub>1</sub> is selected from CH<sub>3</sub>, H, and COOCH<sub>3</sub>; R<sub>2</sub> is selected from CH<sub>3</sub>, F, and H; and R<sub>3</sub> is selected from CH<sub>3</sub>, OH, F, and H.

2. (Original) Compound of claim 1 where X = C(CH<sub>3</sub>)<sub>2</sub> and R<sub>1</sub> = CH<sub>3</sub>, R<sub>2</sub> = R<sub>3</sub> = H.

Claims 3-7 (Canceled)

8. (Original) A process for preparation of a steroid having the 4,9(10)-diene-3-one structure, and derivatives thereof, having the formula (VA), which comprises contacting a steroid selected from the group consisting of 10-hydroxy-4-ene-3-ketosteroids (IIIA), 5,10-dihydroxy-3-ketosteroids (IVA), and mixtures of (IIIA) and (IVA), with concentrated sulfuric acid or moderated sulfuric acid, the moderated sulfuric acid comprising a mixture of the concentrated sulfuric acid and water in an amount of up to 5% by volume of the moderated acid, or a mixture of the concentrated sulfuric acid and a second acid in an amount of up to 30% by volume of the moderated acid,



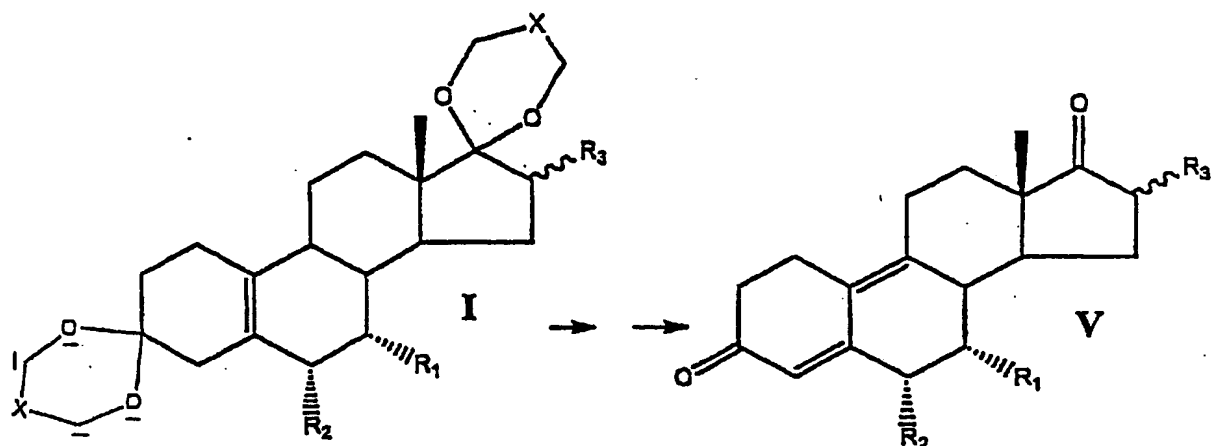
where R<sub>1</sub> is selected from CH<sub>3</sub>, H, and COOCH<sub>3</sub>; and R<sub>2</sub> is selected from CH<sub>3</sub>, F, and H.

9. (Original) A process according to claim 8 where estra-4,9(10)-diene-3,17-dione (VA) is prepared from a steroid selected from the group consisting of 10-hydroxy-estra-4-ene-3,17-dione (IIIA), 5,10-dihydroxy-estra-3,17-dione (IVA), and mixtures thereof.

10. (Original) A process according to claim 8 where 7 $\alpha$ -methyl-estra-4,9(10)-diene-3,17-dione (VA) is prepared from a steroid selected from the group consisting of 10-hydroxy-7 $\alpha$ -methyl-estra-4-ene-3,17-dione (IIIA), 5,10-dihydroxy-estra-3,17-dione (IVA), and mixtures thereof.

11. (Original) A process according to claim 8 where the steroid is contacted with the concentrated sulfuric acid.

12. (Currently amended) A process for preparation of steroidal estra-4,9(10)-diene-3,17-diones of structure (V):



where X is selected from nothing, C(CH<sub>3</sub>)<sub>2</sub>, and CH<sub>2</sub>; R<sub>1</sub> is selected from CH<sub>3</sub>, H, and COOCH<sub>3</sub>; R<sub>2</sub> is selected from CH<sub>3</sub>, F, and H; and R<sub>3</sub> is selected from CH<sub>3</sub>, OH, F, and H; where the process comprises:

- (a) contacting estra-5(10)-ene-3,17-dione-3,17-bis-ketal (I) with an epoxidizing agent;
- (b) contacting the epoxide product of step (a) with dilute acid; and
- (c) contacting the product of step (b) with concentrated sulfuric acid or moderated sulfuric acid, the moderated sulfuric acid comprising a mixture of the concentrated sulfuric acid and water in an amount of up to 5% by volume of the moderated acid, or a mixture of the concentrated sulfuric acid and a second acid in an amount of up to 30% by volume of the moderated acid.

13. (Original) A process according to claim 12 where 7 $\alpha$ -methyl-estra-4,9(10)-diene-3,17-dione (V) is prepared from a steroid selected from the group consisting of 7 $\alpha$ -methyl-estra-5(10)-ene-3,17-dione-3,17-bis-ethylene glycol ketal (I), 7 $\alpha$ -methyl-estra-5(10)-ene-3,17-dione-3,17-bis-neopentyl glycolketal (I).

14. (Original) A process according to claim 12 where the epoxidizing agent is m-chloroperbenzoic acid or peracetic acid.

15. (Original) A process according to claim 12 where the product of step (b) is contacted with the concentrated sulfuric acid.

16. (Original) A process according to claim 12 where the product of step (b) is contacted with the moderated sulfuric acid, and where the moderated sulfuric acid comprises a mixture of the concentrated sulfuric acid and concentrated phosphoric acid.

17. (Original) A process according to claim 12 where *estra-4,9(10)-diene-3,17-dione* (V) is prepared from a steroid selected from the group consisting of *estra-5(10)-ene-3,17-dione-3,17-bis-ethylene glycol ketal* (I), *estra-5(10)-ene-3,17-dione-3,17-bis-neopentyl glycolketal* (I).

18. (Original) A process for preparation of steroidal *estra-4,9(10)-diene-3,17-diones* of structure (V) by treatment of steroidal *estra-5(10),9(11)-diene-3,17-diones* of structure (VI) with concentrated mineral acid.

19. (Original) A process according to claim 18 where the mineral acid is concentrated phosphoric acid.